

AMENDMENTS TO THE SPECIFICATION

Replace the paragraph at page 56, line 34, through and including all of page 58, with:

Hematopoiesis could also be induced when ES-like cells were cultured in methylcellulose to form embryoid bodies (Figure 14I). When ES-like cells were transferred onto gelatin-coated dishes for the differentiation of neural-lineage cells (Nat. Biotech., vol.21, p183-186, 2003), they formed neurons (MAP2 positive cells) or glial cells (MBP positive cells) (Figure 14 J-L). Dopaminergic neurons were also found, albeit at low frequency (Figure 14M). When the present inventors compared the differentiation efficiency using ES cells, ES-like cells produced more glial cells than did ES cells, and there were significantly more vessel cell (endothelial cell and the like) or heart muscle cell colonies from ES-like cells. However, ES-like cells could produce all of the expected lineages using protocols for ES cell differentiation (Table 1).

Table 1

Cell type	Hematopoiesis*†		Vascularogenesis*‡		Neurogenesis§			
	Increase in cell number (fold)	Granulocyte/Macrophage (%)	Erythrocyte (%)	Vessel¶	Heart¶	Neuron¶	Astrocyte¶	Oligodendrocyte¶
ES-like	116.7 + 15.4	7.6 + 0.2	19.9 + 0.7	111.5 + 12.0	8.0 + 4.5	126.7 + 14.4	34.6 + 4.4	4.6 + 2.5
ES cell	102.3 + 11.6	7.6 + 0.4	24.7 + 0.9	49.0 + 9.2	3.8 + 2.0	162.2 + 14.5	10.5 + 3.3	0.2 + 0.1

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